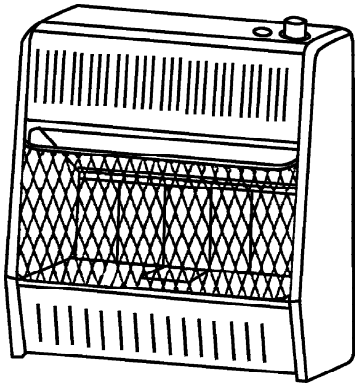
PROCOM

*INFRARED VENT-FREE NATURAL GAS SPACE HEATER*

# OWNER'S OPERATION AND INSTALLATION MANUAL



**MN180TPA-BB**

**MN300TPA-BB**

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⚠ **WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

⚠ **WARNING:** This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Air For Combustion and Ventilation section on page 4 of this manual.


**CONTINENTAL APPLIANCE INC/U.S. OFFICE**

5 Musick
Irvine
CA 92618

4600 Highlands Parkway S.E.
Suite # D/E
Smyrna, GA 30080

Nanjing PRO-COM Electric Appliance Co.,Ltd.
#6 Chuangye Road,High New Tech.Zone,
Great Bridge Road North,Nanjing,210061,
China.

**TOLL FREE NUMBER: 1-877-886-5989**


Do not store, or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

**Installation and service must be performed by a qualified installer, service agency or gas supplier.**

⚠ **WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or gas supplier.

This appliance may be installed in an aftermarket* permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater productes approximately one (1) ounce (30ml) of water for every 1,000 BTU's (.3KW's) of gas input per hour. Refer to page 3.

*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

**Installer: Please leave these instructions with the consumer.**

**Consumer: Please retain these instructions for future use.**


**PR-ML062-11B-0803**

# IMPORTANT SAFETY INFORMATION

⚠ **IMPORTANT:** Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

⚠ **WARNING:** Do not use any accessory not approved for use with this heater.

⚠ **WARNING:** Any change to this heater or its controls can be dangerous.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Due to high temperatures, heater should be kept out of traffic and away from furniture and draperies.

Surface of heater becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutting down. Allow surface to cool before touching.

Carefully supervise young children when they are in the same room with heater.

Make sure grill guard is in place before running heater.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

**State of Massachusetts:** The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.
Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.
In the state of Massachusetts, unvented propane or nature gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

**WARNING**
Modeles MN180TPA-BB, MN300TPA-BB are equipped for natural gas. Field conversion is not permitted.

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
2. If you smell gas
   - Shut off gas supply.
   - Do not try to light any appliance.
   - Do not touch any electrical switch; do not use any phone in your building.
   - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
   - If you cannot reach your gas supplier, call the fire department.
3. This heater shall not be installed in a bedroom or bathroom.
4. Always run non-thermostat heater with control knob at LOW or HIGH locked positions. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.
5. This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensor (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See Fresh Air for Combustion and Ventilation pages 4 and 5.
6. Keep all air openings in front and bottom of heater clear and free of debris. This will insure enough air for proper combustion.
7. If heater shuts off. Do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
8. Do not operate heater
   - where flammable liquids or vapors are used or stored
   - under dusty conditions
9. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.
10. Do not use heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
11. Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.
12. Operating heater above elevations of 4,500 feet could cause pilot outage.

⚠ **DANGER:** Carbon monoxide poisoning may lead to death !

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

**Natural Gas:** Natural gas is odorless. An odor-making agent is added to natural gas. The odor helps you detect a natural gas leak . However, the odor added to natural gas can fade. Natural gas may be present even though no odor exists. Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

# PRODUCT FEATURES

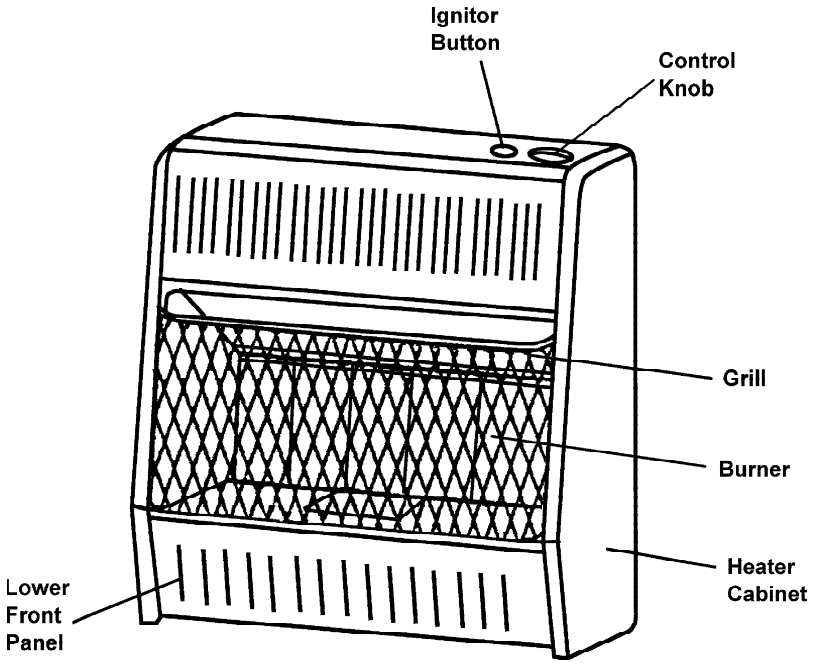



***Figure1-Vent-Free Natural Gas Heater***

## SAFETY DEVICE

A standard requirement for all vent-free room heaters, this heater has a pilot with an Oxygen Depletion Sensor(ODS) safety shutoff system. The ODS/pilot shuts off the heater if there is not enough fresh air.

## PIEZO IGNITION SYSTEM

This heater is equipped with a piezo ignitor. This system requires no matches, batteries, or other sources to light heater.

## THERMOSTATIC HEAT CONTROL ON THERMOSTAT MODELS

These heaters have a control valve with a thermostat sensing bulb. This results in the greatest heater comfort and may result in lower gas bills.

## LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *National Fuel Gas Code ANSI Z223.1*, also known as NFPA 54*.

*Available from :

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018
National Fire Protection Association, Inc.
1 Batterymarch Park
Quincy, MA 02269-9101

## UNPACKING

1. Remove heater from carton.
2. Remove all protective packaging applied to heater for shipment.
3. Check heater for any shipping damage. If heater is damaged, promptly inform dealer where you bought heater.

## WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion.An unvented room heater productes approximately one (1) ounce (30ml) of wter for every 1,000 BTU's (.3KW's) of gas input per hour.

Unvented room heaters are recommended as supplemental heat (a room) rather than a primary heat source (an entire house) .In most supplemental heat application, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experience during cold weather.

The following steps will help insure that water vapor does not become a problem.

1. Be sure the heater is sized properly for the application, including ample combusion air and circulation air.
2. If high humidity is experienced, a dehumidifier may be used to help lower the water vapor content of the air.
3. Do not use an unvented room heater as the primary heat source.

## FRESH AIR FOR COMBUSTION AND VENTILATION

⚠ **WARNING:** This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

## PROVIDING ADEQUATE VENTILATION

The following are excerpts from *National Fuel Gas Code. NFPA 54/ANSI Z223.1, Section 5.3.* Air for Combustion and Ventilation. All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Construction
2. Unconfined Space
3. Confined Space

The information on pages 4 through 6 will help you classify your space and provide adequate ventilation.

### Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

**Unusually tight construction is defined as construction where:**

a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm ($6\times10^{-11}$ kg per pa-sec-$m^2$) or less with openings gasketed or sealed and

b. weather stripping has been added on openable windows and doors *and*

c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings. **If your home meets all of the three criteria above, you must provide additional fresh air.** ***See Ventilation Air From Outdoors, page 6.***

If your home does not meet all of the three criteria above, see *Determining Fresh-Air Flow for Heater Location, below.*

## Confined and Unconfined Space

***The National Fuel Gas Code ANSI Z223.1*** defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 $m^3$ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 $m^3$ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed*, through openings not furnished with doors, are considered a part of the unconfined space.

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation ai r.

* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

## DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

**Determining if you have a Confined or Unconfined Space***

Use this worksheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install heater plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1. Determine the volume of the space (length×width×height).
   length×Width×Height=_____cu.ft. (volume of space)
   Example: Space size 20ft. (length)×16ft.( width)×8ft. (ceiling height)=2560cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Divide the space volume by 50 cubic feet to determine the maximum Btu/Hr the space can support.
   _____(volume of space)÷50 cu. ft.=(Maximum Btu/Hr the space can support)

Example: 2560 cu. ft. (volume of space)÷ 50 cu.ft.=51.2 or 51.200(maximum Btu/Hr the space can support)

⚠ **WARNING:** If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation, or applicable local codes.

3. Add the Btu/Hr of all fuel burning appliances in the space.

| | | |
|---|---|---|
| Vent-free heater | _____ | Btu/Hr |
| Gas water heater* | _____ | Btu/Hr |
| Gas furnace | _____ | Btu/Hr |
| Vented gas heater | _____ | Btu/Hr |
| Gas Fireplace logs | _____ | Btu/Hr |
| Other gas appliances* + | _____ | Btu/Hr |
| Total = | _____ | Btu/Hr |

Example:

| | | | |
|---|---|---|---|
| Gas water heater | | 40,000 | Btu/Hr |
| Vent free heater | + | 18,000 | Btu/Hr |
| Total | = | 58,000 | Btu/Hr |

*Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

_____ Btu/Hr (maximum the space can support)

_____ Btu/Hr (actual amount of Btu/Hr used)

Example : 51,200 Btu/Hr(maximum the space can support)
58,000 Btu/Hr(actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support.

You must provide additional fresh air. Your options are as follows:

A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See *Ventilation Air From Inside Building*, page 5.

B. Vent room directly to the outdoors. See *Ventilation Air From Outdoors*, page 6 .

C. Install a lower Btu/Hr heater, if lower Btu/Hr size makes room unconfined.

**If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.**

## AIR FOR COMBUSTION AND VENTILATION

**Continued**

**VENTILATION AIR**

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). *Follow the National Fuel Gas Code NFPA 54/ANS Z223.1. Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts

**⚠WARNING:** Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

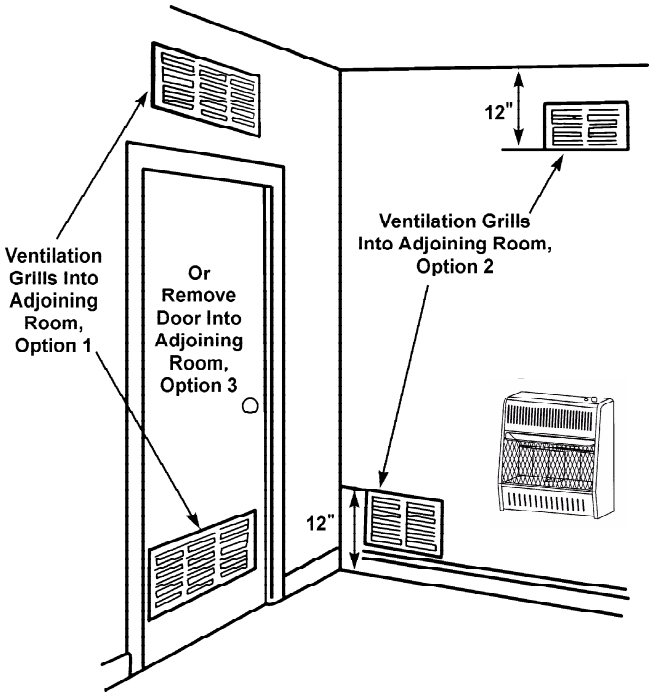

12"
Ventilation Grills Into Adjoining Room, Option 2
Ventilation Grills Into Adjoining Room, Option 1
Or Remove Door Into Adjoining Room, Option 3
12"

***Figure 2 -Ventilation Air from Inside Building***

# VENTILATION AIR

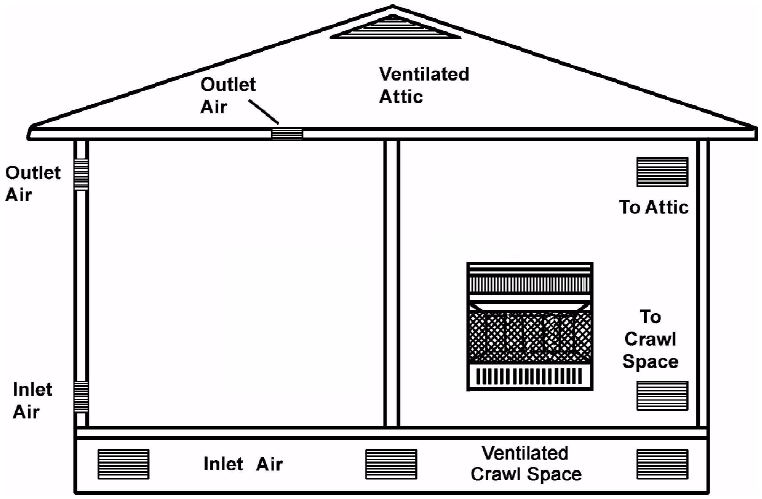



***Figure 3 -Ventilation Air from Outdoors***

**Ventilation Air From Outdoors**

Provide extra fresh air by using ventilation grills or ducts: You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor.

Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the *National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3. Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

**IMPORTANT:** Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

## INSTALLATION

**NOTICE:** This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater. as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

**WARNING:** A qualified service person must install heater. Follow all local codes.

**CHECK GAS TYPE**

Use only natural gas. If your gas supply is not natural gas, do not install heater. Call dealer where you bought heater for proper type heater.

**INSTALLATION NEEDS**

Before installing heater, make sure you have the items listed below.

- piping (check local codes)
- sealant (resistant to natural gas)
- equipment shutoff valve*
- ground joint union
- test gauge connection*
- sediment trap
- tee joint
- pipe wrench

*A CSA/AGA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA/AGA design certified equipment shutoff valve from your dealer. See Accessories, page 17.

## LOCATING HEATER

This heater is designed to be mounted on a wall. You can locate heater on floor, away from a wall. An optional floor mounting stand is needed. Purchase the floor mounting stand from your dealer. See Accessories, page 17.

For convenience and efficiency, install heater

- where there is easy access for operation, inspection, and service
- in coldest part of room

An optional fan kit is available from your dealer. See Accessories, page 17. If planning to use fan, locate heater near an electrical outlet.

**CAUTION:** If you install the heater in a home garage

- heater pilot and burner must be at least 18 inches above floor.
- locate heater where moving vehicle will not hit it.

**CAUTION:** This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist may discolor walls.

**WARNING:** Never install the heater

- in a bedroom or bathroom.
- in a recreational vehicle.
- where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater.
- as a fireplace insert.
- in high traffic areas.
- in windy or drafty areas.

# INSTALLATION

**⚠ WARNING:** Maintain the minimum clearances shown in Figure 4. If you can, provide greater clearances from floor, ceiling, and joining wall.

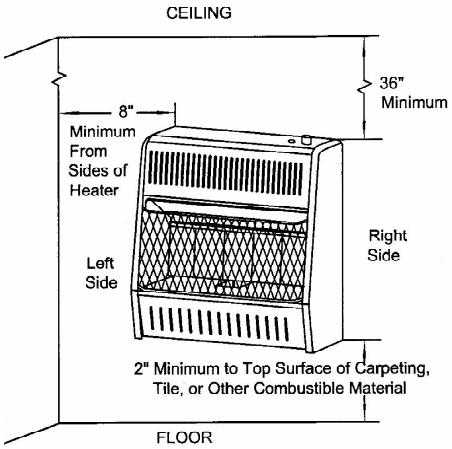



***Figure 4 -Mounting Clearances As Viewed From Front Of Heater***

**⚠ IMPORTANT:** Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Fresh Air for Combustion and Ventilation*, pages 4 and 5.

## INSTALLING THERMOSTAT SENSING BULB

**For T-Stat Models Only**

1. Pull out the sensing bulb from the two clips located in the shippng position according to the direction as shown by the arrow. There is no need to take out the two bulb clips.
2. Take out the bulb clip from the hardware package and insert it into the square hole and then insert the sensing bulb into the bulb clip (see Figure 5).

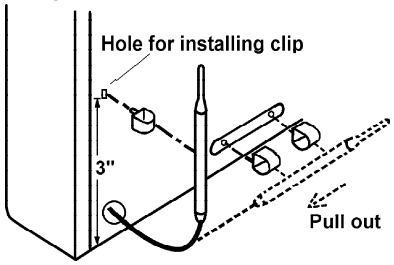



***Figure 5 - Moving Thermostat Sensing Bulb***

## FASTENING HEATER TO WALL Mounting Bracket

The mounting bracket is located on back panel of heater (see Figure6). It has been taped there for shipping. Remove mounting bracket from back panel.

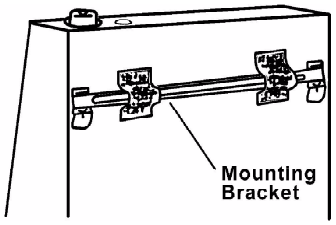



***Figure 6 -Mounting Bracket Location***

**Removing Lower Front Panel Of The Heater**

1. Remove two Screws near bottom corners of lower front panel
2. Pull bottom of lower front panel forward, then down (see Figure 7).

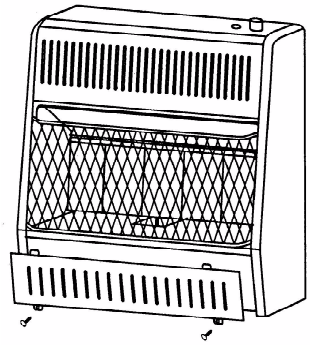


***Figure 7 - Removing Lower Front Panel Of Heater***

## Methods For Attaching Mounting Bracket To Wall

Only use last hole on each end of mounting bracket to attach bracket to wall. These two holes are 16 inches apart from their centers. Attach mounting bracket to wall only in one of two ways:

1. Attaching to wall stud
2. Attaching to wall anchor

**Attaching to Wall Stud:** This method provides the strongest hold. Insert mounting screws through mounting bracket and into wall studs.

**Attaching to Wall Anchor:** This method allows you to attach mounting bracket to hollow walls (wall areas between studs) or to solid walls (concrete or masonry).

Decide which method better suits your needs. Either method will provide a secure hold for the mounting bracket.

**Marking Screw Locations**

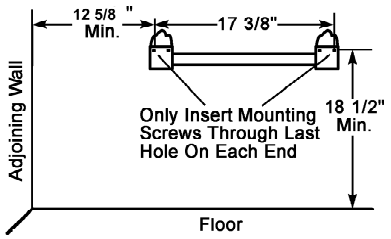
1. Tape mounting bracket to wall where heater will be located. Make sure mounting bracket is level.

**⚠ WARNING:** Maintain minimum clearances shown in Figure 8. If you can, provide greater clearances from floor and joining wall.

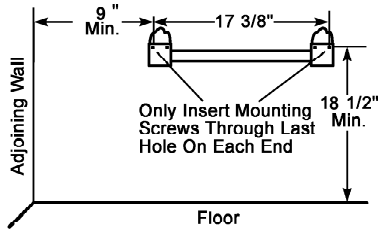
2. Mark screw locations on wall. (see Figure 8)

***Note:*** Only mark last hole on each end of mounting bracket. Insert mounting screws through these holes only.

3. Remove tape and mounting bracket from wall.




Model MN300TPA-BB




Model MN180TPA-BB

***Figure 8 - Mounting Bracket Clearances***

# INSTALLATION

**Attaching Mounting Bracket to Wall**

**Note:** Wall anchors, mounting screws, and spacers are in hardware package. The hardware package is provided with heater.

**Attaching to Wall Stud Method**

*For attaching mounting bracket to wall studs*

1. Drill holes at marked locations using 9/64" drill bit.
2. Place mounting bracket onto wall. Line up last hole on each end of bracket with holes drilled in wall.
3. Insert mounting screws through bracket and into wall studs.
4. Tighten screws until mounting bracket is firmly fastened to wall studs.

**Attaching to Wall Anchor Method**

*For attaching mounting bracket to hollow walls (wall areas between studs) or solid walls (concrete or masonry)*

1. Drill holes at marked locations using 5/16" drill bit. For solid walls (concrete or masonry), drill at least 1" deep.
2. Fold wall anchor as shown in Figure 9 below.

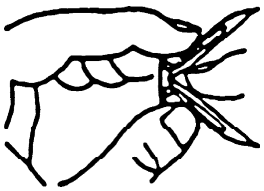


***Figure 9 - Folding Anchor***

3. Insert wall anchor (wings first) into hole. Tap anchor flush to wall.
4. For thin walls (1/2" or less), insert red key into wall anchor. Push red key to "pop" open anchor wings. (see Figure 10)

**⚠ IMPORTANT:** Do not hammer key! For thick walls (over 1/2" thick) or solid walls, do not pop open wings.

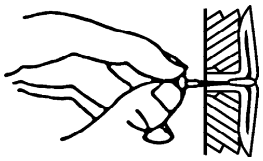


***Figure 10 - Popping Open Anchor Wing For Thin Walls***

5. Place mounting bracket onto wall. Line up last hole on each end of bracket with wall anchors.
6. Insert mounting screws through bracket and into wall anchors.
7. Tighten screws until mounting bracket is firmly fastened to wall.

**Placing Heater On Mounting Bracket**

1. Locate two horizontal slots on back panel of heater (see Figure 11).
2. Place heater onto mounting bracket. Slide horizontal slots onto stand-out tabs on mounting bracket.

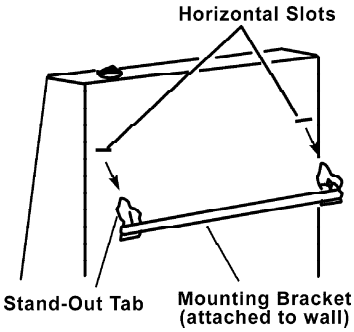



***Figure 11 - Mounting Heater Onto Mounting Bracket***

**Installing Bottom Mounting Screws**

1. Locate two bottom mounting holes. These holes are near bottom on back panel of heater(see Figure 12).

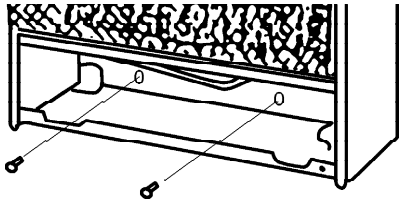


***Figure 12 - Installing Bottom Mounting Screws***

2. Mark screw locations on wall.
3. Remove heater from mounting bracket.
4. If installing bottom mounting screws into hollow or solid wall, install wall anchors. Follow steps 1 through 4 under Attaching To Wall Anchor Method. If installing bottom mounting screw into wall stud, drill holes at marked locations using 9/64" drill bit.
5. Replace heater onto mounting bracket.
6. Place spacers between bottom mounting holes and wall anchor or drilled hole.
7. Hold spacer in place with one hand. With other hand, insert mounting screw through bottom mounting hole and spacer. Place tip of screw in opening of wall anchor or drilled hole.
8. Tighten both screws until heater is firmly secured to wall. Do not over tighten.

- Note: Do not replace lower front panel at this time. Replace lower front panel after making gas connections and checking for leaks (see pages 9 and 10).

# INSTALLATION

**CONNECTING TO GAS SUPPLY**

> ⚠ **WARNING:** A qualified service person must connect heater to gas supply. Follow all local codes.

> ⚠ **WARNING:** This appliance requires a 3/8" NPT (National Pipe Thread) inlet connection to the pressure regulator.

> ⚠ **WARNING:** Never connect heater to private (non-utility) gas well. This gas is commonly known as well-head gas.

**IMPORTANT:** Check your gas line pressure before connecting heater to gas line. Gas line pressure must be no greater than 10.5 inches of water. If gas line pressure is higher, heater regulator damage could occur.

> ⚠ **CAUTION:** Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of large enough diameter to allow proper gas volume to heater. If pipe is too small, undue loss of pressure will occur.

**Typical Inlet Pipe Diameters**
All models up to 20,000 BTU's use 3/8'' or greater pipe;
All models 25,000 BTU's and higher, use 1/2" or greater pipe.

Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater(see Figure13).

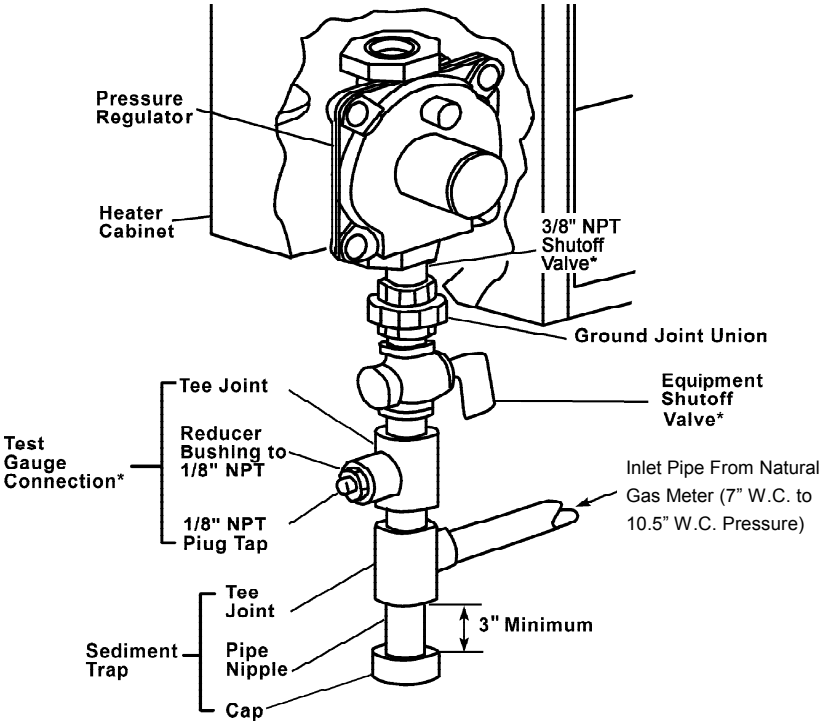



***Figure 13 -Gas Connection***

*A CSA/AGA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA/AGA design-certified equipment shutoff valve from your dealer. See Accessories, page 17.

**IMPORTANT:** Install an equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

> ⚠ **CAUTION:** Use pipe joint sealant that is resistant to natural gas.

Install sediment trap in supply line as shown in Figure 13. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

***IMPORTANT*:** Hold pressure regulator with wrench when connecting it to gas piping and/or fittings.

# INSTALLATION

## CHECKING GAS CONNECTIONS

**WARNING:** Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

**WARNING:** Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

### Pressure Testing Gas Supply Piping System

### Test Pressures In Excess Of 1/2 PSIG (3.5 K Pa)

1. Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage heater regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

### Test Pressures Equal To or Less Than 1/2 PSIG (3.5 K Pa)

1. Close equipment shutoff valve (see Figure 14).
2. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
3. Check all joints from gas meter to equipment shutoff valve (see Figure 15). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
4. Correct all leaks at once.

### Pressure Testing Heater Gas Connections

1. Open equipment shutoff valve (see Figure 14).
2. Open main gas valve located on or near gas meter.
3. Make sure control knob of heater is in the OFF position.
4. Check all joints from equipment shutoff valve to control valve (see Figure 15 ). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Light heater (see Operating Heater, pages 10 and 11 for non-thermostat models or page 12 for thermostat models). Check the rest of the internal joints for leaks.
7. Turn off heater (see To Turn Off Gas to Appliance, page 11 for non-thermostat models or page 12 for thermostat models).
8. Replace lower front panel.

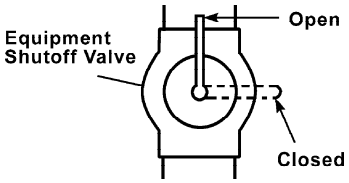



*Figure 14 -Equipment Shutoff Valve*

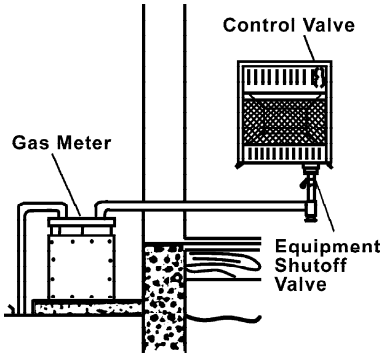



*Figure 15 -Checking Gas Joints*

**WARING:** Do not over tighten gas connections.

# OPERATING YOUR HEATER

**NON-THERMOSTAT MODELS**

**■FOR YOUR SAFETY■**
**READ BEFORE LIGHTING**

**WARNING:** If you do not follow these instructions exactly, a fire or explosion may result in causing property damage, personal injury or loss of life.

A. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor .

**WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

# OPERATING YOUR HEATER

### Manual Control Models

### ■LIGHTING■ INSTRUCTIONS

1. STOP! Read the safety information on the side of heater.
2. Check that gas supply to heater is on.
3. Push in gas control knob slightly and turn clockwise ↷ to the OFF position.

***NOTE***: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

4. Wait five (5) minutes to clear out any air. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information on the side of the heater. If you do not smell gas, go to the next step.
5. Push in gas control knob slightly and turn counterclockwise ↶ to "PILOT/IGN" and depress for five(5) seconds

***NOTE***: The first time that the heater is operated after connecting the gas supply , the control knob should be depressed for about thirty (30) seconds. This will allow air to bleed from the gas system.

6. With control knob pressed in, push down and release the ignitor button. This will light pilot. If needed, keep pressing ignitor button until pilot lights.

***NOTE***: If pilot does not stay lit, refer to *Troubleshooting*, pages 14 through 16. Also contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure.*

7. Keep control knob pressed in for thirty (30) seconds after lighting pilot. After 30 seconds, release control knob.
- If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.

***NOTE***: If pilot goes out, repeat steps 3 through 7. Wait one (1) minute before lighting pilot again

8. Turn control knob counterclockwise ↶ to desired heating level. The main burner should light. Set control knob to any heat level between HI and LO.

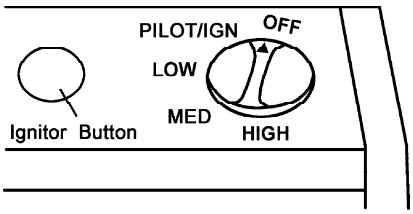



***Figure 16 - Control Knob In The OFF Position***

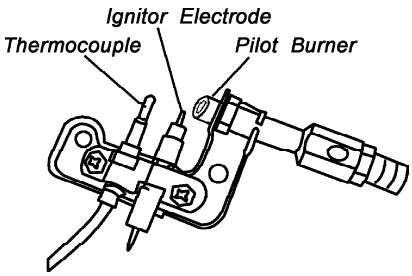



***Figure 17 - Pilot***

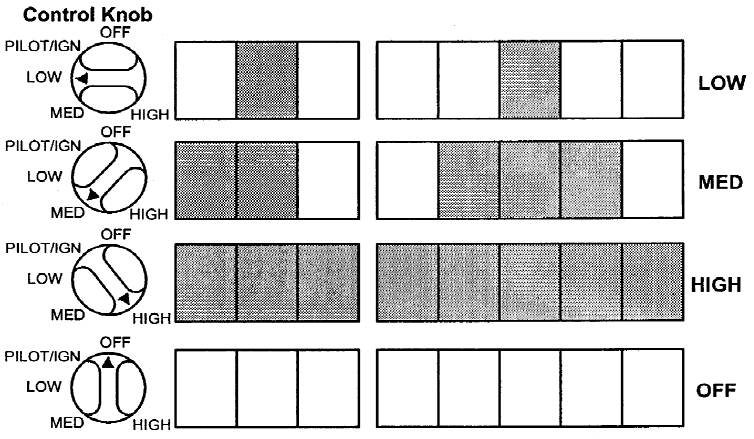



***Figure 18 - Burner Patterns***

### ■TO TURN OFF■ GAS TO APPLIANCE

**Shutting Off Heater**

1. Turn control knob clockwise ↷ to the OFF position.
2. Turn off all electric power to the appliance if service is to be performed.

**SHUTTING OFF BURNER ONLY (PILOT STAYS LIT)**

Turn control knob clockwise ↷ to the PILOT/IGN position.

### ■MANUAL LIGHTING■ PROCEDURE

1. Remove lower front panel (see Figure 7 page 7).
2. Follow steps 1 through 5 under *Lighting Instructions*.
3. With control knob pressed in, strike match. Hold match to pilot until pilot lights.
4. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Follow step 8 under *Lighting Instructions*.
5. Replace lower front panel.

# OPERATING YOUR HEATER

## THERMOSTAT MODELS
## ■FOR YOUR SAFETY■
## READ BEFORE LIGHTING

> ⚠ **WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- if you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it , call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## ■LIGHTING■
## INSTRUCTIONS

1. STOP! Read the safety information on the side of heater.
2. Make sure equipment shutoff valve is fully open.
3. Turn control knob clockwise ↷ to the OFF position.
4. Wait five(5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information on the side of heater. If you don't smell gas, go to the next step.
5. Turn control knob counterclockwise ↶ to the PILOT position. Press in control knob for five(5) seconds. (see Figure 19). ***Note:*** You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds. This will allow air to bleed from the gas system.
   - If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.
6. With control knob pressed in, push down and release ignitor button. This will light pilot. The pilot is attached to the front of burner. If needed, keep pressing ignitor button until pilot lights.

***NOTE***: If pilot does not stay lit, refer to *Troubleshooting*, pages 14 through 16. Also contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match.To light pilot with match, see *Manual Lighting Procedure*.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
   - If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.

   ***NOTE***: If pilot goes out,repeat steps 3 through 7.This heater has a safety interlock system. Wait one(1)minute before lighting pilot again.
8. Turn control knob counterclockwise ↶ to desired heating level. The main burner should light. Set control knob to any heat level between HI and LO.(see Figure 19)

> ⚠ **CAUTION:** Do not try to adjust heating levels by using the equipment shutoff valve.

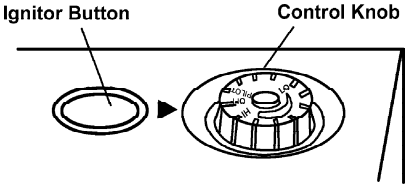



***Figure 19 - Control Knob In The OFF Position***

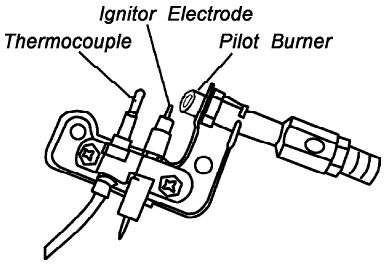



***Figure 20 - Pilot***

## ■TO TURN OFF■
## GAS TO APPLIANCE

**Shutting Off Heater**

1. Turn control knob clockwise ↷ to the OFF position.
2. Turn off all electric power to the appliance if service is to be performed.

**Shutting Off Burner Only (pilot stays lit )**

Turn control knob clockwise ↷ to the PILOT position.

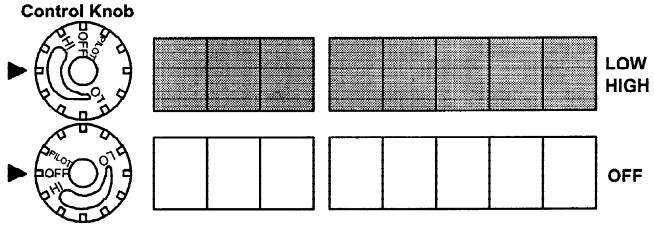



***Figure 21 - Burner Patterns***

# OPERATING YOUR HEATER

*Continued*

## ■THERMOSTAT■ CONTROL OPERATION

The thermostatic control used on these Models differs from standard thermostats. Standard thermostats simply turn on and off the burner. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The control knob can be set to any heat level between HI and LO.

***NOTE***: The thermostat sensing bulb measures the temperature of air near the heater cabinet. This may not always agree with room temperature (depending on housing construction, installation location, room size, open air temperatures, etc.)Frequent use of your heater will let you determine your own comfort levels.

## ■MANUAL LIGHTING■ PROCEDURE

1. Remove lower front panel (see Figure 7 page 7).
2. Follow steps 1 through 5 under Lighting Instructions on page 12.
3. With control knob pressed in, strike match. Hold match to pilot until pilot lights.
4. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Follow step 8 under *Lighting Instructions* on page 12.
5. Replace lower front panel.

# INSPECTING BURNER

Check pilot flame pattern and burner flame pattern often.

### PILOT FLAME PATTERN

Figure 22 shows a correct pilot flame pattern. Figure 23 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down. If pilot flame pattern is incorrect, as shown in Figure 23.

- turn heater off (see To Turn Off Gas To Appliance. page 11 for non-thermostat models or page 12 for thermostat models)
- see Troubleshooting. pages 14 through 16.

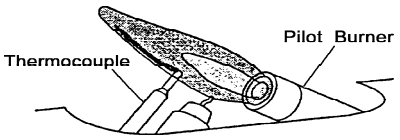



***Figure 22 - Correct Pilot Flame Pattern***

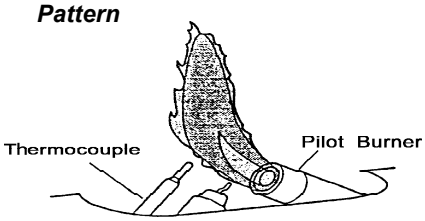



***Figure 23 - Incorrect Pilot Flame Pattern***

### BURNER FLAME PATTERN

Figure 24 shows a correct burner flame pattern. Figure 25 shows an incorrect burner flame pattern. If burner flame pattem is incorrect, as shown in Figure 25.

- turn heater off (see To Turn Off Gas to Appliance. page 11 for non-thermostat models or page 12 for thermostat models)
- see Troubleshooting. pages 14 through 16

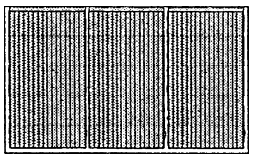


***Figure 24 - Correct Burner Flame Pattern***

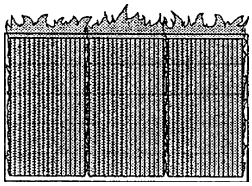


***Figure 25 - Incorrect Burner Flame Pattern***

# CLEANING AND MAINTENANCE

**⚠ WARNING:** Turn off heater and let cool before servicing.

**⚠ CAUTION:** You must keep control areas, burner, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

### CLEANING ODS/PILOT AND BURNER

- Use a vacuum cleaner, pressurized air. or a small, soft bristled brush to clean.

### CLEANING BURNER PILOT AIR INLET HOLE

We recommend that you clean the unit every 2,500 hours of operation or every three months. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
2. Inspect burner, and pilot for dust and dirt.
3. Blow air through the ports/slots and holes in the burner.

Also, clean the pilot assembly. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 26). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not availabl.

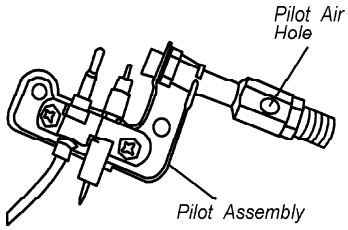



***Figure 26 - Pilot Inlet Air Hole***

### CLEANING HEATER CABINET

**Air Passageways**

- Use a vacuum cleaner or pressurized air to clean.

**Exterior**

- Use a soft cloth dampened with a mild soap and water mixture. Wipe the cabinet to remove dust.

# TROUBLESHOOTING

***Note*** **:** All troubleshooting items are listed in order of operation.

⚠ **WARNING:** Only a qualified service person should service and repair heater.

⚠ **CAUTION:** Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| When ignitor button is pressed and control knob is pressed in and turned to the PILOT position, there is no spark at ODS/pilot. | 1. Ignitor electrode is positioned wrong. | 1. Replace ignitor. |
| | 2. Ignitor electrode is broken. | 2. Replace ignitor. |
| | 3. Ignitor electrode is not connected to ignitor cable. | 3. Reconnect ignitor cable. |
| | 4. Ignitor cable pinched or wet. | 4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry. |
| | 5. Broken ignitor cable. | 5. Replace ignitor cable. |
| | 6. Bad piezo ignitor. | 6. Replace piezo ignitor. |
| ODS/pilot lights but flame goes out when control knob is released. | 1. Gas supply turned off or equipment shutoff valve is closed. | 1. Turn on gas supply of open equipment shutoff valve. |
| | 2. Control knob not fully pressed in while pressing ignitor button. | 2. Fully press in control knob while pressing ignitor button. |
| | 3. Air in gas lines when installed. | 3. Continue holding down control knob. Repeat igniting operation until air is removed. |
| | 4. ODS/pilot is clogged. | 4. Clean ODS/pilot (see Cleaning and Maintenance, Page 13) or replace ODS/pilot assembly. |
| | 5. Gas regulator setting is not correct. | 5. Replace gas regulator. |
| | 6. Control knob not in PILOT position. | 6. Turn controlknob to PILOT position. |
| When ignitor button is pressed and control knob is press in and turned to the PILOT position, there is a spark at ODS/pilot but no ignition. | 1. Control knob is not fully pressed in. | 1. Press in control knob fully. |
| | 2. Control knob is not pressed in long enough. | 2. After ODS/pilot lights, keep control knob pressed in 30 seconds. |
| | 3. Equipment shutoff valve not fully open. | 3. Fully open equipment shutoff valve. |
| | 4. Thermocouple connection loose at control valve. | 4. Hand tighten until snug, then tighten 1/4 turn more. |
| | 5 Pilot flame is not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:<br>A) Low gas pressure<br>B) Dirty or partially clogged ODS/ pilot | 5. A) Contact local natural gas company.<br>B) Clean ODS/pilot (see Cleaning and Maintenance, Page 13) or replace ODS/pilot assembly. |
| | 6. Thermocouple damaged. | 6. Replace thermocouple. |
| | 7. Control valve damaged. | 7. Contact Dealer or PRO-COM. |

# TROUBLESHOOTING
## *Continued*

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| Burner(s) does not light after ODS/pilot is lit. | 1. Burner orifice is clogged. | 1. Clean burner orifice (see Cleaning and Maintenance, Page 13) or replace burner orifice. |
| | 2. Burner orifice diameter is too small. | 2. Replace burner orifice. |
| | 3. Inlet gas pressure is too low. | 3. Contact local natural gas company. |
| Delayed ignition of burner(s). | 1. Manifold pressure is too low. | 1. Contact local natural gas company. |
| | 2. Burner orifice is clogged. | 2. Clean burner (see *Cleaning and Maintenance*, Page 13) or replace burner orifice. |
| Burner backfiring during combustion. | 1. Burner orifice is clogged or damaged. | 1. Clean burner orifice (see Cleaning and Maintenance, Page 13) or replace. |
| | 2. Burner is damaged. | 2. Contact Dealer or PRO-COM. |
| | 3. Gas regulator is defective. | 3. Replace gas regulator. |
| Burner plaque(s) does not glow. | 1. Plaque is damaged. | 1. Replace burner. |
| | 2. Inlet gas pressure is too low. | 2. Contact local natural gas company. |
| | 3. Control knob set between locked positions. | 3. Turn control knob until it locks at desired setting. |
| Slight smoke or odor during initial operation. | 1. Residues from manufacturing processes. | 1. Problem will stop after a few hours of operation. |
| Heater produces clicking/ticking noise just after burner is lit or shut off. | 1. Metal is expanding while heating or contracting while cooling. | 1. This is common with most heaters. if noise is excessive, contact qualified service person. |
| White powder residue forming within burner box or on adjacent walls or furniture. | 1. When heated the vapors from furniture polish, wax, carpet cleaners, etc. turn into white powder residue. | 1. Turn heater off when using furniture polish, wax. carpet cleaner or similar products. |

# TROUBLESHOOTING

## *Continued*

⚠ **WARNING:** If you smell gas

- Shut off gas supply.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately cal l your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

***IMPORTANT*:** Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| Heater produces unwanted odors. | 1. Heater burning vapors from paint, hair spray, glues, etc. (See IMPORTANT statement above).<br>2. Gas leak. See Warning Statement at top of page. | 1. Ventilate room. Stop using odor causing products while heater is running.<br>2. Locate and correct all leaks(see Checking Gas Connections, page 10). |
| Heater shuts off in use (ODS operates). | 1. Not enough fresh air is available.<br>2. Low line pressure.<br>3. ODS/pilot is partially clogged. | 1. Open window and/or door for ventilation.<br>2. Contact local natural gas company.<br>3. Clean ODS/pilot (see Cleaning page 13). |
| Gas odor even when control knob is in OFF position. | 1. Gas leak. See Warning statement at top of page.<br>2. Control valve is defective. | 1. Locate and correct all leak s(see Checking Gas Connections, page 10)<br>2. Contact Dealer or PRO-COM |
| Gas odor during combustion. | 1. Foreign matter between control valve and burner.<br>2. Gas leak. See Warning Statement at top of page. | 1. Take apart gas tubing and remove foreign matter.<br>2. Locate and correct all leaks (see Checking Gas Connections, page 10). |
| Moisture/condensation noticed on windows. | 1. Not enough combustion/ventilation air. | 1. Refer to Air for Combustion and Ventilation requirements (page 4). |

# SPECIFICATIONS

| | MN180TPA-BB | MN300TPA-BB |
|---|---|---|
| Btu(available) | 18,000 | 30,000 |
| Gas Type | Natural Only | Natural Only |
| Ignition | Piezo | Piezo |
| Pressure Regulator setting | 6" W.C. | 6" W.C. |
| Inlet Gas Pressure *(inches of water) | | |
| Maximum | 10.5" | 10.5" |
| Minimum | 7" | 7" |
| Dimensions, Inches (HxWxD) | | |
| Heater | 23 1/2×19 1/4×8 | 23 1/2×26 5/8×8 |
| Carton | 26 1/2×213/4×9 1/4 | 26 1/2×28 1/2×9 1/4 |
| Weight (pounds) | | |
| Heater | 26.9 | 33.9 |
| Shipping | 29.9 | 38.9 |

**Note:** Dimensions listed are outer most points on the heater (includes control knobs and grill).
* For purposes of input adjustment.

## REPLACEMENT PARTS

***Note:*** Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealer from whom you purchased this product. If they are unable to supply original replacement part(s), call the number on the front of manual When contacting your dealer or PRO-COM, have ready:

- your name
- your address
- model and serial numbers of your heater
- how heater was malfunctioning
- type of gas used (Propane/LP or Natural gas)
- purchase date
- warranty card

Usually, we will ask you to return the defective part to the factory.

## PARTS NOT UNDER WARRANTY

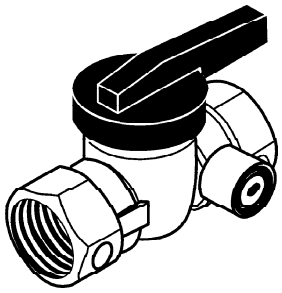
Contact authorized dealers of this product. If they can't supply original replacement part(s), call PRO-COM's phone number 1-877-886-5989.

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact PRO-COM'S phone number 1-877-886-5989

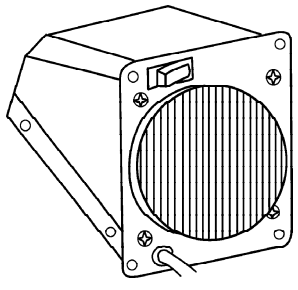
## ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, contact PRO-COM for information. You can also write to the address listed on the front of this manual.



## EQUIPMENT SHUTOFF VALVE

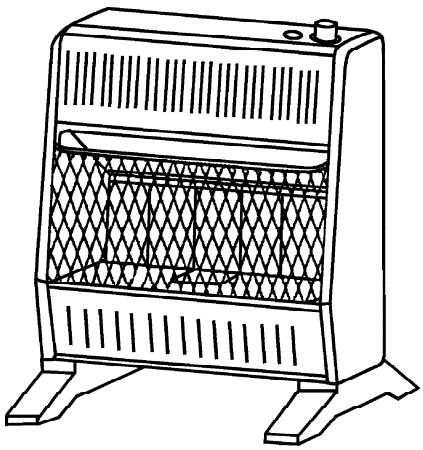
For all models. Equipment shutoff valve with 1/8" NPT tap.



**FAN KITS PF06YJLF-B**

**Optional FAN Kit**

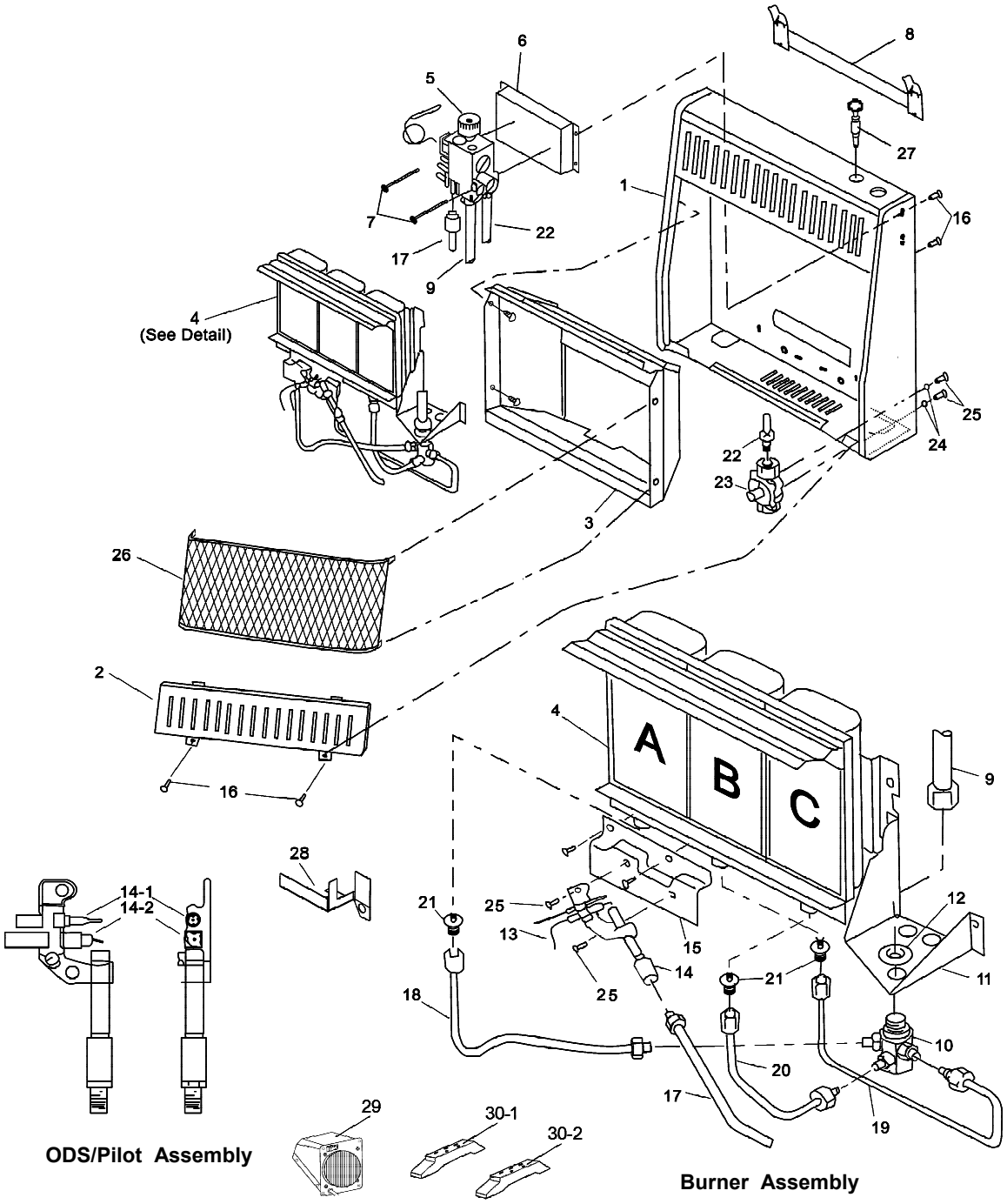
The optional fan kit, part number PF06YJLF-B fits all models noted in this manual. The fan has 3 settings ON/OFF/Auto. The thermostatically controlled PF06YJLF-B improves heater efficiency and includes installation and operating instructions.



## FLOOR MOUNTING STAND

For locating heater on the floor, away from a wall. Complete installation instructions provided with floor mounting stand.

# ILLUSTRATED
# PARTS BREAKDOWN
## MN180TPA-BB

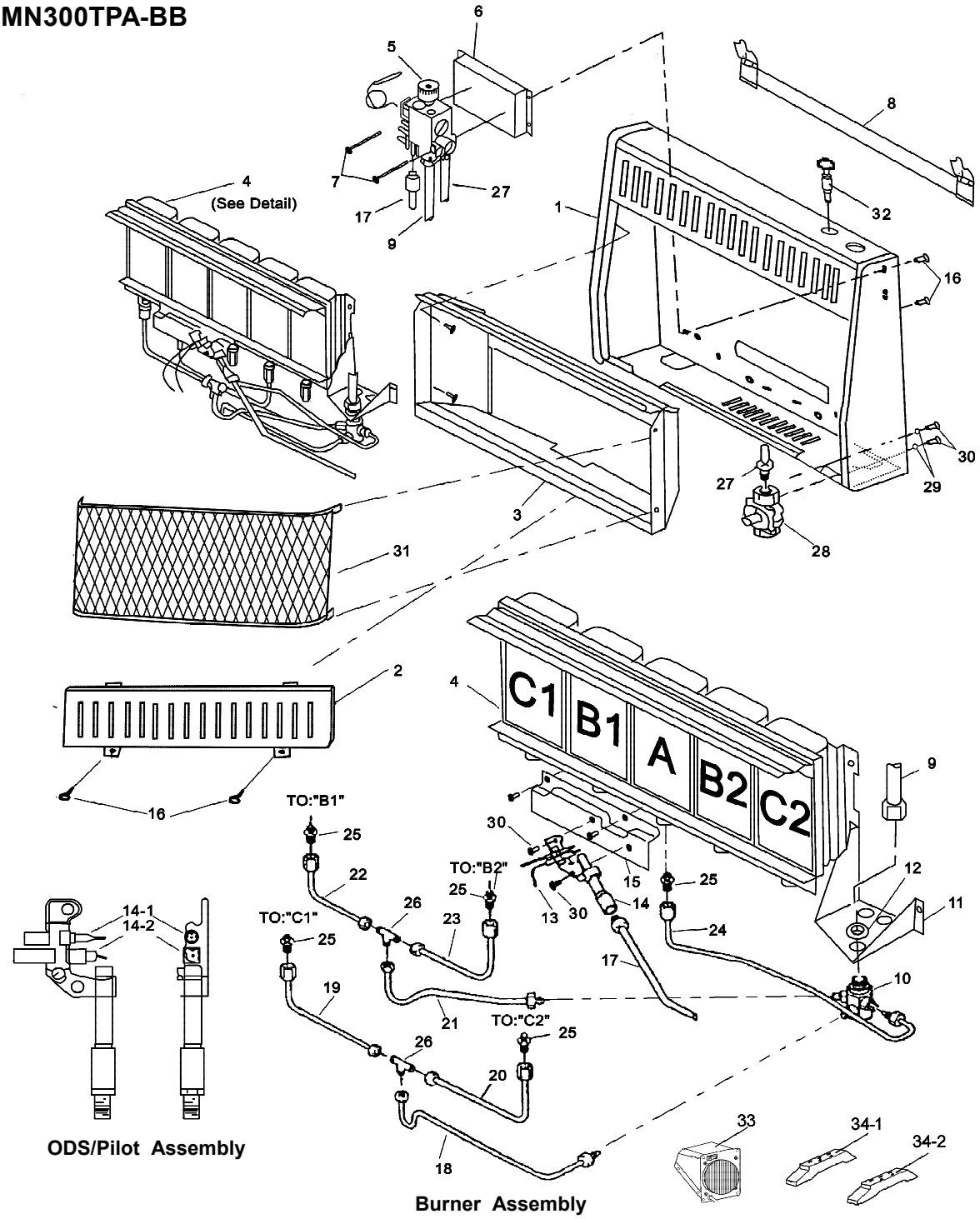


## PARTS LIST
## MN180TPA-BB

This list contains replaceable parts for your heater. When ordering replacement parts, following the instruction listed under Replacement Parts on page 17 of this manual.

| KEY NO. | MN180TPA-BB PART NO. | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MB10055 | Cabinet Assembly | 1 |
| 2 | MB09002 | Lower Front Panel Assembly | 1 |
| 3 | MB11003 | Reflector Unit | 1 |
| 4 | MB19003 | Burner Assembly | 1 |
| 5 | SIT545-000 | Thermostat Valve Assembly | 1 |
| 6 | ML111-01 | Thermostat Valve Base | 1 |
| 7 | 845-4.8x60Z | Self Tapping Screw | 2 |
| 8 | MB060-01 | Mounting Bracket Assembly | 1 |
| 9 | MB40007 | Thermostat Outlet Tube Assembly | 1 |
| 10 | ML096-01 | 4-way connector | 1 |
| 11 | ML115-01 | 4-way connector Bracket | 1 |
| 12 | ML116-01 | 4-way connector Fixed Nut | 1 |
| 13 | ML073-01 | Ignitor Line | 1 |
| 14 | ND1206x800x9 | ODS Pilot | 1 |
| 14-1 | ND0803-8 | Thermocouple | 1 |
| 14-2 | ND0807 | Ignitor Electrode | 1 |
| 15 | ML026-01 | ODS Mounting Bracket | 1 |
| 16 | ML069-02 | Self Tapping Screw | 14 |
| 17 | MB40029 | ODS Gas Line Assembly | 1 |
| 18 | MB40030 | “A” Burner Gas Line Assembly | 1 |
| 19 | MB40031 | “B” burner Gas Line Assembly | 1 |
| 20 | MB40032 | “C” burner Gas Line Assembly | 1 |
| 21 | ML090-01 | Injector | 3 |
| 22 | MB40006 | Main Inlet Tube Assembly | 1 |
| 23 | NRV81FI-6 | Pressure Regulator | 1 |
| 24 | 96-4Z | Washer | 2 |
| 25 | ML079-01 | Self Locking Screw | 2 |
| 26 | MB29002 | Grill Guard | 1 |
| 27 | ML083-03 | Ignitor Assembly | 1 |
| 28 | ML105-03 | ODS Upper Deflector | 1 |
| 29 | PF06-YJLF-B | Fan Accessory Panel | 1 |
| 30-1 | PF09B-01 | Base | 1 |
| 30-2 | PF09B-02 | Base | 1 |
| | | | |
| | MB28001 | Hardware assembly | 1 |
| | ML070-07 | CSA/AGA Decal | 1 |
| | ML071-01 | Gas Instruction Decal | 1 |
| | ML072-01 | Inside Warning Label | 1 |
| | ML065-01 | Thermostat Sensing Bulb Clip | 2 |

# ILLUSTRATED
# PARTS BREAKDOWN
## MN300TPA-BB




ODS/Pilot Assembly

Burner Assembly

## PARTS LIST
## MN300TPA-BB

This list contains replaceable parts for your heater. When ordering replacenment parts, following the instruction listed under Replacement Parts on page 17 of this manual.

| KEY NO. | MN300TPA-BB PART NO. | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MB10052 | Cabinet Assembly | 1 |
| 2 | MB09051 | Lower Front Panel Assembly | 1 |
| 3 | MB11051 | Reflector Unit | 1 |
| 4 | MB19001 | Burner Assembly | 1 |
| 5 | SIT545-000 | Thermostat Valve Assembly | 1 |
| 6 | ML111-01 | Thermostat Valve Base | 1 |
| 7 | 845-4.8x60Z | Self Tapping Screw | 2 |
| 8 | MB060-01 | Mounting Bracket Assembly | 1 |
| 9 | MB40007 | Thermostat Outlet Tube Assembly | 1 |
| 10 | ML096-01 | 4-way Connector | 1 |
| 11 | ML115-01 | 4-way Connector Bracket | 1 |
| 12 | ML116-01 | 4-way Connector Fixed Nut | 1 |
| 13 | ML073-01 | Ignitor Line | 1 |
| 14 | ND1206x800x9 | ODS Pilot | 1 |
| 14-1 | ND0803-8 | Thermocouple | 1 |
| 14-2 | ND0807 | Ignitor Electrode | 1 |
| 15 | ML026-01 | ODS Mounting Bracket | 1 |
| 16 | ML079-01 | Self Tapping Screw | 14 |
| 17 | MB40008 | ODS Gas Line Assembly | 1 |
| 18 | MB40009 | “C” Burner Gas Line Assembly | 1 |
| 19 | MB40012 | “C1” Burner Gas Line Assembly | 1 |
| 20 | MB40013 | “C2” Burner Gas Line Assembly | 1 |
| 21 | MB40010 | “B” Burner Gas Line Assembly | 1 |
| 22 | MB40014 | “B1” Burner Gas Line Assembly | 1 |
| 23 | MB40015 | “B2” Burner Gas Line Assembly | 1 |
| 24 | MB40011 | “A” Burner Gas Line Assembly | 1 |
| 25 | ML090-01 | Injector | 5 |
| 26 | ML056-01 | “T” Joint | 2 |
| 27 | MB40006 | Main Inlet Tube Assembly | 1 |
| 28 | NRV81FI-6 | Pressure Regulator | 1 |
| 29 | 96-4Z | Washer | 2 |
| 30 | ML079-01 | Self Locking Screw | 2 |
| 31 | MB29001 | Grill Guard | 1 |
| 32 | ML083-03 | Ignitor Assembly | 1 |
| 33 | PF06-YJLF-B | Fan Accessory Panel | 1 |
| 34-1 | PF09B-01 | Base | 1 |
| 34-2 | PF09B-02 | Base | 1 |
| | | | |
| | MB28001 | Hardware Assembly | 1 |
| | ML070-09 | CSA/AGA Decal | 1 |
| | ML071-01 | Gas Instruction Decal | 1 |
| | ML072-01 | Inside Warning Label | 1 |
| | ML065-01 | Thermostat Sensing Bulb Clip | 2 |